

April 21, 2011

CLEARSTREAM WATER SYSTEMS INC.
LONNIE WELCH
PO BOX 7568
BEAUMONT TX 77726

Re: Description: SEWAGE TREATMENT SYSTEMS, AERATED (also see SEWAGE TREATMENT APPARATUS)
Manufacturer: CLEARSTREAM WATER SYSTEMS INC.
Product Name: CLEARSTREAM® WASTEWATER TREATMENT SYSTEM
Model Number(s):500NC
[500 GPD; MAX. BOD 1.25 LBS; AERATOR 2.4 SCFM]
Product File No: 20110068

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of April 2016.**

This approval is contingent upon compliance with the following stipulation(s):

- This tank must be designed to withstand the pressures to which it will be subjected.
- The manufacturer must keep at the manufacturing plant a set of plans and specifications bearing the department's stamp of approval. The plans and specifications must be open to inspection by an authorized representative of the department.
- This product may not be installed more than 18 inches below final grade.
- When this product receives wastewater from dwellings, it will produce an effluent quality with a maximum monthly average value for BOD5 of less than or equal to 30 mg/L, TSS of less than or equal to 30 mg/L TSS and F.O.G. of less than 30 mg/L.
- A septic tank (pretreatment tank/trash trap) with a volume of at least 50% of the gallon per day rating of this product must be installed upstream of this product.
- Because many Commerce approved products are readily available for sale on the internet; it is important that buyers in Wisconsin are aware of approval stipulations for Commerce-approved products.
For example, in the state of Wisconsin, the installation of this product/device in a POWTS requires a credentialed/licensed person, local or state plan review, and/or the issuance of a state sanitary permit. See applicable codes—chs. Comm 5 and 81-87, <http://commerce.wi.gov/SB/SB-DivCodesListing.html>.
It is recommended that when required (a credentialed/licensed person, plan review and a state sanitary permit), such information is included in written and electronic communications (brochures/advertisements/webpages, etc.) regarding this product/device.
- When this product is installed in a POWTS component, a properly credentialed/licensed person must perform the installation.

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| TABLE 1 | |
| INSPECTION, MAINTENANCE AND PUMPING | |
| PRODUCT/ (Models): CLEARSTREAM (500N, 500 NC, 600N, 600NC | |
| 500 NC, 600 NC, 750N, 750NC, 1000N and 1000NC) | |
| [DESCRIPTION—STAND ALONE PRE-CAST OR FIBERGLASS TANK | |
| WITH AERATION UNIT]..... | |
| Initial/Startup Inspection/ Maintenance: serviced by manufacturer representative | |
| Routine Inspection/Maintenance: see manufacturer's service policy | |
| Ongoing Pumping Cycle And/Or Requirements: PUMP TRASH AND AERATION TANKS | |
| EVERY 2-5 YEARS or as per local requirements | |
| Back-Wash Cycle: | N/A |
| Effluent Performance Levels: | CLASS I NSF-40 LISTED; SEE BOD5 loading max. |
| BOD5 Credit For Downsizing Distribution Area: | YES * |
| Fecal Credit For Reduction Of Vertical Separation: | NO |
| Additional Comments: NONE | |
| * Proper function based on domestic wastewater or flows with similar wastewater characteristics. | |
- All pre-cast tanks shall be Commerce approved tanks. Pre-treatment tanks must be state approved and have capacity of at least ½ design flow and a min. liquid depth of 30 inches.

This approval supersedes the approval issued on 4/21/2005 under product file number 20050177.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20050177.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST
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Commerce; Safety & Buildings Div.
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